	Application No.	Applicant(s)	
Notice of Allowability	10/534,282	 MILLAR, ROBERT	PETER
	Examiner	Art Unit	1
	Padma V. Baskar	1645	
The MAILING DATE of this communication appearable All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not includ will be mailed in due	ed course. THIS
1. This communication is responsive to <u>5/7/2010</u> .			
2. The allowed claim(s) is/are <u>1-11,13,16 and 28-32</u> .			
 Acknowledgment is made of a claim for foreign priority ureal. All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Application No		ation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			e back) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	 5. ☐ Notice of Informal F 6. ☒ Interview Summary Paper No./Mail Da 7. ☒ Examiner's Amenda 8. ☒ Examiner's Stateme 9. ☐ Other 	(PTO-413), te <u>5/3/2010</u> . ment/Comment	owance



Application No.

Application/Control Number: 10/534,282 Page 2

Art Unit: 1645

DETAILED ACTION

1 The amendment filed on 5/7/2010 is acknowledged and entered.

Status of Claims

2.

Claims 12, 14-15 and 17-27 are cancelled.

Claims 1, 4, 5, 31 and 32 have been amended.

Claims 1-11, 13, 16 and 28-32 are under consideration.

- 3. In view of the amendment to the claims, the rejection of record for claims 1- 3 and 30 under 35 U.S.C. 102(b) as being anticipated by Mathias U.S.Patent No: 5,434,136 is withdrawn.
- 4. In view of the amendment to the claims, the rejection of record for claims 1- 11, 13,16 and 28-32 under 35 U.S.C. 102(b) as being anticipated by Meloen U.S.Patent No: 7,361, 349 is withdrawn.
- 5. In view of the amendment to the claims and arguments, the rejection of claims 1- 11, 13, 16, 28- 32 under 35 U.S.C. 112, second paragraph is withdrawn.

Reasons for allowance

- 6. The claims 1-11, 13, 16 and 28-32 are allowed because the prior arts Mathias U.S.Patent No: 5,434,136 and Meloen U.S.Patent No: 7,361, 349 do not teach or suggest synthetic peptide SEQ ID NO: 1-3, wherein each of the amino acids are in the D-amino acid configuration that induced antibodies that are functional to inhibit native GnRH and vaccine composition. The GNRH PEPTIDE analogs (not D amino acid configuration) disclosed by these prior arts have not been shown to be effective immunogens and thus teaches away from the claimed synthetic peptide SEQ ID NO: 1-3 having D-amino acid configuration. The claimed peptide has been shown that inhibited GnRH stimulated inositol phosphate (IP) accumulation in COS-1 cells transiently transfected with human GnRH receptor (Fig. 4a). Further , the antibodies (figure 5a) bound to native GnRH (Fig. 5b). Mice immunized with RI-GnRH peptide and CpG as adjuvant produced anti-RI-GnRH antibodies, which cross-reacted with the native hormone (Fig. 7) and mice were infertile (Fig. 8).
- 6. Claims 1-5, 28-32, 6-11, 13 and 16 are allowed and have been renumbered as 1-18 respectively.
- 7. Papers related to this application may be submitted to Group 1600, AU 1645 by facsimile transmission. Papers should be transmitted via the PTO Fax Center, which receives transmissions 24

Application/Control Number: 10/534,282 Page 3

Art Unit: 1645

hours a day and 7 days a week. The transmission of such papers by facsimile must conform to the notice published in the Official Gazette, 1096 OG 30, November 15, 1989. The Right Fax number is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PMR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PMR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PMR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Padma Baskar Ph.D., whose telephone number is ((571) 272-0853. A message may be left on the Examiner's voice mail system. The Examiner can normally be reached on Monday to Friday from 6.30 a.m. to 4.00 p.m. except First Friday of each bi-week.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Robert B. Mondesi can be reached on 571)272-0956.

Respectfully, /Padma Baskar/ Examiner 1645

/Robert B Mondesi/ Supervisory Patent Examiner, Art Unit 1645